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☒ 1. Document ID: US 5624349 A

L1: Entry 1 of 2

File: USPT

Apr 29, 1997

US-PAT-NO: 5624349

DOCUMENT-IDENTIFIER: US 5624349 A

TITLE: Initializing device of speed change control system for use in continuously variable transmission for automotive vehicle

DATE-ISSUED: April 29, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamamoto; Masahiro	Zama			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Nissan Motor Co., Ltd.	Kanagawa Pref.			JP	03

APPL-NO: 08/ 578917 [PALM]

DATE FILED: December 27, 1995

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	6-325644	December 27, 1994

INT-CL: [06] F16 H 9/00, F16 H 15/00, F16 H 61/32

US-CL-ISSUED: 477/46

US-CL-CURRENT: 477/46

FIELD-OF-SEARCH: 477/46, 477/48

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4698764</u>	October 1987	Inagaki et al.	477/46
<u>4736655</u>	April 1988	Kumura et al.	477/46

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO
61-287835

PUBN-DATE
October 1993

COUNTRY
JP

US-CL

ART-UNIT: 352

PRIMARY-EXAMINER: Wright; Dirk

ATTY-AGENT-FIRM: Lowe, Price, LeBlanc & Becker

ABSTRACT:

A controller (17) obtains a target input rotating speed ($N_{sub.is}$) based on a vehicle running speed (VSP) and a throttle valve opening degree (TVO), drives a motor (23) by the use of a corresponding instruction value, and operates a speed change control valve (21) through a link (22). The controller (17) makes the motor (23) rotate to a hardware limit position in a side corresponding to a lower speed ratio side when the vehicle is in a stopping condition, and then makes the motor (23) rotate in the counter direction to return to a position corresponding to the lowest speed change ratio. On this occasion, the instruction value of the motor (23) is initialized to "0" corresponding to the lowest speed change ratio. When the vehicle is in a running condition, an actual speed change ratio is calculated, from which the motor position is inferred. Then, the instruction value of the motor (23) is initialized as a value corresponding to the inferred position thereof. Thus, a switch becomes unless in order to make the motor rotate to the position corresponding to the lowest speed change ratio position, further the initialization is realized not only when the electric power is turned on, so that the times of the initialization can be increased.

8 Claims, 4 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 2. Document ID: JP 3384156 B2, JP 08178063 A, US 5624349 A

L1: Entry 2 of 2

File: DWPI

Mar 10, 2003

DERWENT-ACC-NO: 1996-374151

DERWENT-WEEK: 200321

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TITLE: Initialization appts of velocity change control device for stepless transmission machine - has controller which supplies instruction value to motor after initialization of motor ends

INVENTOR: YAMAMOTO, M

PATENT-ASSIGNEE: NISSAN MOTOR CO LTD (NSMO)

PRIORITY-DATA: 1994JP-0325644 (December 27, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 3384156 B2</u>	March 10, 2003		009	F16H061/02
<u>JP 08178063 A</u>	July 12, 1996		008	F16H061/32
<u>US 5624349 A</u>	April 29, 1997		011	F16H009/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 3384156B2	December 27, 1994	1994JP-0325644	
JP 3384156B2		JP 8178063	Previous Publ.
JP 08178063A	December 27, 1994	1994JP-0325644	
US 5624349A	December 27, 1995	1995US-0578917	

INT-CL (IPC): F16 H 9/00; F16 H 15/00; F16 H 59:44; F16 H 61/02; F16 H 61/32

ABSTRACTED-PUB-NO: JP 08178063A

BASIC-ABSTRACT:

The appts has a controller (17) in to which the vehicle speed (VSP) and throttle opening (TVO) are input. When it is detected that the vehicle has stopped, a motor (23) is operated. A motor initialization movement unit initializes the motor by moving the motor to a standard position. The controller outputs the rotating speed (NiS) of a target as the instruction value to the motor after its initialization ends.

The instruction value corresponds to the transmission gear ratio of the target. A velocity change control valve (21) is operated by the operation of the motor through a link (22). The velocity change control valve outputs velocity change control pressure by which the speed is changed.

ADVANTAGE - Increases initialization frequency. Eliminates need for sensor and switch thereby reducing cost. Improves reliability. Completes initialization promptly. Prevents power swing.

ABSTRACTED-PUB-NO: US 5624349A

EQUIVALENT-ABSTRACTS:

An initializing device of a speed change control system for use in a continuously variable transmission for an automotive vehicle according to the present invention, in which said speed change control system operates a speed change control valve by acting of a motor based on an instruction value corresponding to a target speed change ratio, to carry out speed change control of said continuously variable transmission with a speed change control pressure outputted by said speed change control valve in response to said operation of said speed change control valve; comprising,

a stopping condition detecting means for detecting that said automotive vehicle mounting said continuously variable transmission is in a stopping condition,

a motor initializing operation making means for making said motor carry out an initializing operation in which said motor acts in one direction to a hardware limit position and then acts in the other direction to return to a reference position, at least when said stopping condition detecting means detects that said automotive vehicle is in a stopping condition, and

a motor instruction value initializing means for initializing said instruction value for said motor corresponding to said reference position, when said initializing operation of said motor made by said motor initializing operation making means is finished.

CHOSEN-DRAWING: Dwg.1/4 Dwg.1/4

DERWENT-CLASS: Q64 X22
EPI-CODES: X22-G01;

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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